

From: Pak, Yong
Sent: Tuesday, January 15, 2002 1:38 PM
To: STIC-Biotech/ChemLib
Subject: 09/654,652

dear stic,

please search the following in commercial and interference database for 09/654,652:

1. SEQ ID NO:3
2. oligomer search of SEQ ID NO:3

Yong Pak

Art Unit 1652
CM1 10A16 (mail box 10C01)
703-308-9363

Pending Nucleic Acid and/or Pending Amino Acid database searches now generate two sets of results. These databases were split into to two parts to reduce the time needed to update the databases daily. The split freed up more machine time for processing searches.

Searches run against the Nucleic Acid Pending database produce two sets of results, with the extensions, **.rnpm** and **.rnpn**

Searches run against the Amino Acid Pending database produce two sets of results, with the extensions, **.rapm** and **.rapn**

The Pending database search results should not be left in the case because they contain data that is confidential.

Searcher: P. Nelson - Early
Phone: 308-4501
Location: Biotech Lib.
Date Picked Up: 1/15/02
Date Completed: 1/15/02
Searcher Prep/Review: _____
Clerical: 5m
Online time: 4m

TYPE OF SEARCH:

NA Sequences: _____
AA Sequences: 2
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST(where applic.)

STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: AB5502
WWW/Internet: _____
Other (specify): _____

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: January 15, 2002, 15:48:20 ; Search time 12.57 Seconds

(without alignments)
624.793 Million cell updates/sec

Title: US-09-654-652A-3

Perfect score: 1824

Sequence: 1 MNIKKTAVKSAALAVAAAAA.....AKGAKVNPNGHKRRVNFEEH 349

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 212252 seqs, 22503292 residues

Total number of hits satisfying chosen parameters: 212252

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_AA:*
1: /cgn2_6/prodata/2/1aa/5A.COMB.pep:*
2: /cgn2_6/prodata/2/1aa/5B.COMB.pep:*
3: /cgn2_6/prodata/2/1aa/6A.COMB.pep:*
4: /cgn2_6/prodata/2/1aa/6B.COMB.pep:*
5: /cgn2_6/prodata/2/1aa/CTUS.COMB.pep:*
6: /cgn2_6/prodata/2/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1210	66.3	228	3	US-09-286-690-12 Sequence 12, App1
2	248	13.6	239	1	US-08-103-998-2 Sequence 2, App1
3	248	13.6	242	3	US-09-286-690-8 Sequence 8, App1
4	233.5	12.8	243	3	US-09-286-690-10 Sequence 10, App1
5	231.5	12.7	279	3	US-09-286-690-9 Sequence 9, App1
6	227.5	12.5	238	3	US-09-286-690-7 Sequence 7, App1
7	224.5	12.3	242	3	US-09-286-690-11 Sequence 11, App1
8	222.5	12.2	237	1	US-08-103-998-4 Sequence 4, App1
9	190.5	10.4	245	3	US-09-286-690-2 Sequence 2, App1
10	159.5	8.7	306	2	US-08-824-707-2 Sequence 2, App1
11	145	7.9	263	4	US-09-159-106-2 Sequence 2, App1
12	144	7.9	435	4	US-09-159-106-11 Sequence 11, App1
13	141.5	7.8	303	4	US-09-159-106-13 Sequence 13, App1
14	133.5	7.3	276	2	US-08-712-072C-4 Sequence 4, App1
15	119	6.5	321	2	US-08-712-072C-3 Sequence 3, App1
16	117.5	6.4	289	2	US-08-580-545B-4 Sequence 4, App1
17	117.5	6.4	289	4	US-09-262-653A-4 Sequence 4, App1
18	117.5	6.4	289	4	US-08-867-484A-2 Sequence 2, App1
19	116.5	6.4	654	1	US-08-392-828C-2 Sequence 2, App1
20	116.5	6.4	654	3	US-09-330-945-2 Sequence 2, App1
21	115	6.3	262	1	US-08-392-828C-37 Sequence 37, App1
22	115	6.3	262	3	US-09-330-945-37 Sequence 37, App1
23	113	6.2	285	2	US-08-712-072C-5 Sequence 5, App1
24	110.5	6.1	295	1	US-08-295-657-3 Sequence 3, App1
25	110	6.0	287	4	US-08-640-737-8 Sequence 8, App1
26	109.5	6.0	289	4	US-08-640-737-2 Sequence 2, App1
27	107.5	5.9	666	4	US-08-961-083-2 Sequence 2, App1

28	106.5	5.8	682	3	US-08-481-435-6 Sequence 6, App1
29	105	5.8	422	2	US-08-712-072C-2 Sequence 2, App1
30	104	5.7	348	4	US-09-216-295-16 Sequence 16, App1
31	103.5	5.7	395	2	US-08-404-531B-3 Sequence 3, App1
32	103.5	5.7	395	3	US-08-476-900A-3 Sequence 3, App1
33	103.5	5.7	395	3	US-08-488-546A-3 Sequence 3, App1
34	103.5	5.7	1580	4	US-08-726-320-1 Sequence 1, App1
35	103.5	5.7	1580	4	US-09-208-716-1 Sequence 1, App1
36	103.5	5.7	1581	4	US-08-726-320-3 Sequence 3, App1
37	103.5	5.7	1581	4	US-09-208-716-3 Sequence 3, App1
38	98.5	5.4	1581	2	US-08-404-531B-6 Sequence 6, App1
39	98.5	5.4	1581	3	US-08-476-900A-6 Sequence 6, App1
40	98.5	5.4	1581	3	US-08-488-546A-6 Sequence 6, App1
41	97.5	5.3	1385	1	US-07-876-280-2 Sequence 2, App1
42	97.5	5.3	1385	1	US-07-675-772-2 Sequence 2, App1
43	97.5	5.3	1385	1	US-08-063-170-2 Sequence 2, App1
44	97.5	5.3	1385	1	US-08-158-232-2 Sequence 2, App1
45	97.5	5.3	1385	1	US-08-304-626-2 Sequence 2, App1

ALIGNMENTS

RESULT 1
US-09-286-690-12
; Sequence 12, Application US/09286690
; Patent No. 6103511
; GENERAL INFORMATION:
; APPLICANT: Li, Xin-Liang
; APPLICANT: Ljunggahl, Lars G.
; APPLICANT: Chen, Huizhong
; TITLE OF INVENTION: Lichenase and Coding Sequences
; FILE REFERENCE: 55-96
; CURRENT APPLICATION NUMBER: US/09/286, 690
; CURRENT FILING DATE: 1999-04-05
; EARLIER APPLICATION NUMBER: US 60/027, 882
; EARLIER FILING DATE: 1999-10-04
; EARLIER APPLICATION NUMBER: PCT/US97/17811
; EARLIER FILING DATE: 1997-10-03
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 12
; LENGTH: 228
; TYPE: PRT
; ORGANISM: Fibrobacter succinogenes
US-09-286-690-12

Query Match 66.3%; Score 1210; DB 3; Length 228;
Best Local Similarity 100.0%; Pred. No. 8.4e-103;
Matches 228; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MNIKKTAVKSAALAVAAAAAATTNVSAGDGLTYLLEVOYGFARMKMAASTVS 60
DB 1 MNIKKTAVKSAALAVAAAAAATTNVSAGDGLTYLLEVOYGFARMKMAASTVS 60
QY 61 SMFLYQNGSELADRPVPEVDIEVLGNPSPFOSNITTKAGAAKTSKHHAVSPADQA 120
DB 61 SMFLYQNGSELADRPVPEVDIEVLGNPSPFOSNITTKAGAAKTSKHHAVSPADQA 120
QY 121 FHVYGLFMTNPNVYKVTVDGGEVRKTEGGVSNLTGTGRLRNLMSSSSAAVVGQFDESKL 180
DB 121 FHVYGLFMTNPNVYKVTVDGGEVRKTEGGVSNLTGTGRLRNLMSSSSAAVVGQFDESKL 180
QY 181 PLRQFIMVAVKYKTPGQGGSGSFTLDWTDNPTFPGSRMGKGDWTF 228
DB 181 PLRQFIMVAVKYKTPGQGGSGSFTLDWTDNPTFPGSRMGKGDWTF 228
QY 181 PLRQFIMVAVKYKTPGQGGSGSFTLDWTDNPTFPGSRMGKGDWTF 228
DB 181 PLRQFIMVAVKYKTPGQGGSGSFTLDWTDNPTFPGSRMGKGDWTF 228
RESULT 2
US-08-103-998-2
; Sequence 2, Application US/08103998
; Patent No. 5470725

[illegible][illegible]

Query Match	12.8%	Score 233.5	DB 3	Length 243
Best Local Similarity	33.7%	Prod. No. 1.1e-13		
Matches	58	Conservative	26	Mismatches 77
				Indels 11
				Gaps 6
QY	23	TNVSAKDFSGAEYLTTEEEVQYGFKEAFKMAAASGTYSSMFLXONGSEIADGRPEWEYDI	82	
		:::	:::	
Db	81	TSPTSYNKFDCGEMNSVQTYCYGLLEYVMKRAKKNVGIYVSFFETTYGPI---	DGTFWDEIDI	137
QY	83	EVLGKNDFGFSQSNITTGKAGQKTSSEKHNHVASPAADQAFHTYGLGEMTPNRYVMTVDQGEV	142	
		:::	:::	
Db	138	EFLGKDTTKVQFNYYTNGVGV---NHEKIVNLGFDAANSYHTYAADMQPNSIKWYVDQO-L	193	
QY	143	KRTGEGGVSNLTGTGGLRFLNMSSES-AAYVGQDESKRLPQRIINNVKYYK	193	
		:::	:::	
Db	194	KHNATQIIPQTPGK-LIMNLMNAGVDEWLGSYN-GVTPSRSLNHWRYTK	242	

Query Match 7.8%; Score 141.5; DB 4; Length 303;
Best Local Similarity 23.0%; Pred. No. 3.9e-05;
Matches 68; Conservative 34; Mismatches 85; Indels 109; Gaps 15;

QY 6 TAVSALVAAAAAALT---TNVSA-----KDFSCA----- 33
DB 28 SALVALALAAAAAALVTAATSAAPDGLMSDEFDAAGSAPNPAWNHETAGHGN 87
QY 34 ---ELYTLE-----EVOYGFARKMAA 55
DB 88 AELQVTSRANSAIDGCGNLVITARREGDSYTSARMTQCKYOPOTGRLEARIQIRG 147
QY 56 SGTVSSMFLYONGSEIADGRPV---EVDI-EVLGNP---GSFQSNITGKAGAKRTS 107
DB 148 QG-IWPAFWMLGGS--FPGTWPSSGSEIDIMENWGFEPHRAHGVHGPYSGSGCI--TG 202
QY 108 EKHNAVSPAADAQAEHTTGLEWTPNVTVDGQEVKRTGCGVSNLTGQLRFNLMSSE 167
DB 203 MYOHQGWSPADTFHTFAVDKPGCEITWFDGQCFHRVTRASVG----- 246
QY 168 SAANVGOFDESKLPLFOFINNVKVKYPRGSGEGS---DFTLDMTNDPFDGGS 219
DB 247 ANAWV--FDQ---PFFILN-VAVGGQWPGYPDGTTQLPQOMKVDYVRYDNGSGS 296

RESULT 14
US-08-712-072C-4
: Sequence 4, Application US/08712072C
: Patent No. 5925541
: GENERAL INFORMATION:
: APPLICANT: Jack Goldstein, Alex Zhu and Lin Leng
: TITLE OF INVENTION: ENDO-BETA-GALACTOSIDASE
: NUMBER OF SEQUENCES: 13
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Amster, Rotstein & Edenstein
: STREET: 90 Park Avenue
: CITY: New York
: STATE: NY
: COUNTRY: US
: ZIP: 10016
: COMPUTER READABLE FORM:
: MEDIUM TYPE: 3.5 INCH 1.44 MB STORAGE DISKETTE
: COMPUTER: IBM PC COMPATIBLE
: OPERATING SYSTEM: MS-DOS
: SOFTWARE: ASCII
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/712.072C
: FILING DATE: 11-SEP-1996
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Bogosian, Elizabeth A.
: REGISTRATION NUMBER: 39,911
: REFERENCE/DOCKET NUMBER: 63475/97
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (212) 697-5995
: TELEFAX: (212) 286-0854 or 286-0082
: TELEX: TWX 710-581-4766
: INFORMATION FOR SEQ ID NO: 4:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 276 amino acids
: TYPE: amino acid
: STRANDEDNESS:
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: HYPOTHETICAL: NO
: ANTI-SENSE: NO
: FRAGMENT TYPE:
: ORIGINAL SOURCE:
: ORGANISM: gub, Rhodothermus marinus

US-08-712-072C-4
Query Match 7.3%; Score 133.5; DB 2; Length 276;
Best Local Similarity 23.7%; Pred. No. 0.00016;
Matches 44; Conservative 34; Mismatches 85; Indels 23; Gaps 8;

QY 28 KDFSGAELTYLLEVO--GKFEARKMAAAGTSSMFLYONGSEIADGRPV---EVDI 82
DB 93 REYTSARLVITGKASMTYGRFEIRARLPSSGRTWPAIMLPDRQYGSAY--WPDNGEIDI 151
QY 83 -EVLGNP---GSFQSNITGKAGAKRTSEKHNAVSPAADAQAEHTTGLEWTPNVTVD 137
DB 152 MEHWGFNDVYHGVHTKAYNHLGTORGSGIR--VPTARTDFHVAIEWTPPEIRMFV 208
QY 138 DQGEVKTREGGVSNLTG-----TQGLRFNLSSESAANVGQ--PDESKLPLFOFINM 188
DB 209 DDSLTYRFPNERLTDPEADMRHWPDPFPHLIMNIAVGAWGQGGVDPPEAPQALVDY 268
QY 189 VKVKRY 194
DB 269 VRVYRW 274

RESULT 15
US-08-712-072C-3
: Sequence 3, Application US/08712072C
: Patent No. 5925541
: GENERAL INFORMATION:
: APPLICANT: Jack Goldstein, Alex Zhu and Lin Leng
: TITLE OF INVENTION: ENDO-BETA-GALACTOSIDASE
: NUMBER OF SEQUENCES: 13
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Amster, Rotstein & Edenstein
: STREET: 90 Park Avenue
: CITY: New York
: STATE: NY
: COUNTRY: US
: ZIP: 10016
: COMPUTER READABLE FORM:
: MEDIUM TYPE: 3.5 INCH 1.44 MB STORAGE DISKETTE
: COMPUTER: IBM PC COMPATIBLE
: OPERATING SYSTEM: MS-DOS
: SOFTWARE: ASCII
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/712.072C
: FILING DATE: 11-SEP-1996
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Bogosian, Elizabeth A.
: REGISTRATION NUMBER: 39,911
: REFERENCE/DOCKET NUMBER: 63475/97
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (212) 697-5995
: TELEFAX: (212) 286-0854 or 286-0082
: TELEX: TWX 710-581-4766
: INFORMATION FOR SEQ ID NO: 3:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 321 amino acids
: TYPE: amino acid
: STRANDEDNESS:
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: HYPOTHETICAL: NO
: ANTI-SENSE: NO
: FRAGMENT TYPE:
: ORIGINAL SOURCE:
: ORGANISM: el3b, Bacillus circulans
: US-08-712-072C-3

